



## iVW Video Wall Controller

- Easy-to-install, flexible combination, cost-effective solution
- High-resolution display content input and output
- Support various display modes, including full mode, clone mode, vertical replication mode and user mode
- QNAP unique GeniMask™ bezel masking technology
- Allow remote managing via RS-232 or DVI connection



# Why QNAP Video Wall

## Video Wall Controller

Connect a laptop or desktop PC directly to the QNAP Video Wall for instant display on a large video wall. No special hardware is required, only a high resolution DVI output from the computer to the video wall controller. The video wall controller tiles together a group of small and inexpensive LCD panels to produce a large video screen.



## Easy-To-Install

Just a DVI cable connects the computer to the video wall controller. No extra setup is required and the video wall controllers automatically detects the correct settings. Traditional setups require complex software device drivers and complicated setup. The QNAP video wall controllers are as simple as plug and play.

### Traditional PC-Based Video Wall Solution



### New-Generation QNAP Video Wall Solution

Connect a computer to the video wall with just a high-resolution **Dual-link DVI** connection.



	Size	Power Consumption	Installation	Expansion
<b>New Generation QNAP iVW Solution</b>	Small • Slim and elegant design	Low • Fanless	Easy • Connect PC via 1 DVI cable	Flexible & Easy • Super large video wall by connecting iVW controllers
<b>Traditional PC-based Solution</b>	Large • PC with multiple graphic cards	High • Graphic card Processing consumes much more power	Complicated • Special device drivers and software support	Limited & Expensive • Require a PC with multiple expansion slots

## iVW UD (Ultra HD) Series



### iVW-UD322

- 1 x DVI-D input with 4 x DVI-D outputs (2 x 2)
- Support up to 3840 x 2400
- Ultra high resolution input

### SUPPORTED GRAPHIC CARD LIST

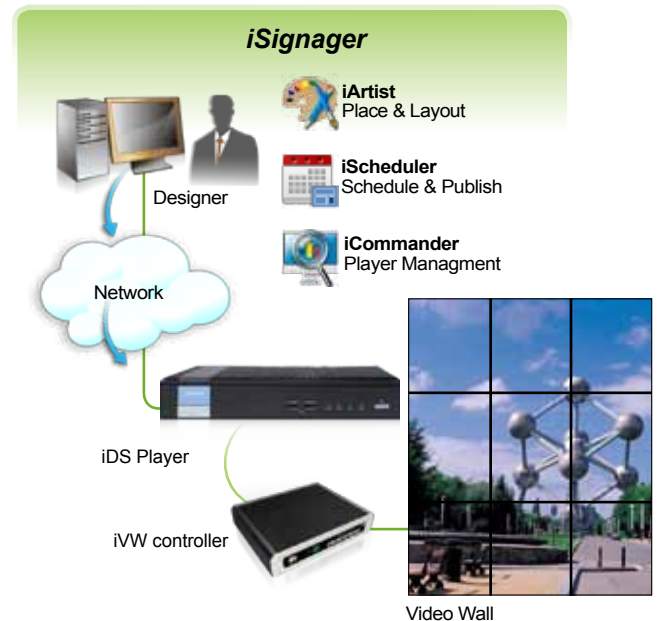
iVW UD series controllers require a graphic card with dual-link DVI and compatibility in ultra high resolution. Below is the supported graphic card list, all other graphic cards not listed below are not guaranteed to be compatible with iVW UD series controllers.

NVIDIA® GeForce® GTX 650  
NVIDIA® GeForce® GTX 660



# Integration with Digital Signage

The iSignager software allows multi-screen layout design. It is usable to create a layout for video wall application. Users can easily build the single or traversed or even independent media zones.



## Descriptions

### ► iSignager Software

**iArtist:** easy to use content management software for content layout and placement

**iScheduler:** scheduling software supports hourly, daily, weekly, and monthly based scheduling and time-slot view

**iCommander:** administrator software for remote player management and content update

### ► iSignager Player

**High-end:** multiple Full HD output, capability for video analytics

**Main stream:** Single/dual Full HD output, capability of rich media decoding

**Entry Level:** Single Full HD output, fanless and compact design

### ► iVW video wall controller

**Full HD (1080p) Series**

**Ultra HD (Above 1080p) Series**



**1 x 4**  
(Portrait 4 x 1)  
iVW-UD322



**2 x 2**  
iVW-UD322



**1 x 3**  
(Portrait 3 x 1)  
iVW-UD322



**2 x 1**  
iVW-UD322



**4 x 1**  
iVW-UD322



**3 x 1**  
iVW-UD322

# iVW FD (Full HD) Series



## iVW-FD133

- 1 x DVI-D input with 9 x DVI-D outputs (3 x 3)
- Support up to 1920 x 1200 high resolution input



## iVW-FD122

- 1 x DVI-D input with 4 x DVI-D outputs (2 x 2)
- Support up to 1920 x 1200 high resolution output



## iVW-FH122

- 1 x HDMI input with 1 x HDMI output and 2 x 2 HDMI outputs
- Support up to 1920 x 1080 high resolution output



## iVW-FH133

- 1x HDMI input with 9xHDMI outputs (3x3)
- Support up to 1920 x1200 high resolution



3 x 3

iVW-FD133



2 x 2

iVW-FD133  
iVW-FD122  
iVW-FH122  
iVW-FH133



1 x 1

iVW-FD133  
iVW-FD122  
iVW-FH122  
iVW-FH133

## 2 x 2 PIP Mode: iVW-FD122, iVW-FH122



Mode 1

Full image on the upper-left screen



Mode 2

Full image on the upper-right screen



Mode 3

Full image on the lower-left screen



Mode 4

Full image on the lower-right screen

## Unique GeniMASK Technology

GeniMASK™ adjusts the mask settings of all the video wall controllers. Adjusting each video wall controller individually is time-consuming, but with GeniMASK™ technology, and the included remote control, the mask settings can be adjusted at once as easy as changing TV channels. No separate adjustment is needed. Set once and it's done!



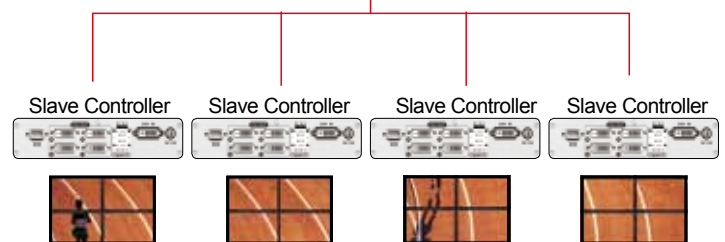
Image Source

Master Controller

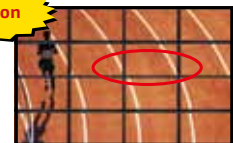


Only the master controller is adjusted

Slave controllers are automatically set



With QNAP GeniMASK™



Without QNAP GeniMASK™

## Flexible Expansion

To create a impressive video wall with minimum resources, the video wall controllers can be connected in series to easily expand to a really large scale setup as shown in the diagrams below.






Choose the Video Wall Matrix	4 x 4	4 x 4	6 x 6	6 x 6	9 x 9
Video Wall Matrix Diagram					
Input Resolution	<b>Max. Image esolution:</b> 1920 x 1200 <b>Image Input Cable:</b> Single-link DVI-D <b>Image Output Cable:</b> Single-link DVI-D	<b>Max. Image Resolution:</b> 3840 x 2400 <b>Image Input Cable:</b> Dual-link DVI-D <b>Image Output Cable:</b> Single-link DVI-D	<b>Max. Image Resolution:</b> 1920 x 1200 <b>Image Input Cable:</b> Single-link DVI-D <b>Image Output Cable:</b> Single-link DVI-D	<b>Max. Image Resolution:</b> 3840 x 2400 <b>Image Input Cable:</b> Dual-link DVI-D <b>Image Output Cable:</b> Single-link DVI-D	<b>Max. Image Resolution:</b> 1920 x 1200 <b>Image Input Cable:</b> Single-link DVI-D <b>Image Output Cable:</b> Single-link DVI-D
First Layer	 iVW-FD122	 iVW-UD322	 iVW-FD133	 iVW-UD322	 iVW-FD133
Second Layer	 iVW-FD122	 iVW-FD122	 iVW-FD122	 iVW-FD133	 iVW-FD133



# Product Comparison

## Ultra HD Resolution Series

## Full HD Resolution Series

Model		 iVW-UD322			 iVW-FH122			 iVW-FD122			 iVW-FD133			 iVW-FH133			
Features		<ul style="list-style-type: none"><li>QNAP unique GeniMask™ bezel masking technology</li><li>Easy-to-install, flexible combination, cost-effective solution</li><li>High-resolution display content input and output</li><li>Non-scaling, pixel-to-pixel mapping advantage</li><li>Support various display modes</li><li>High frame rate</li></ul>			<ul style="list-style-type: none"><li>QNAP unique GeniMask™ bezel masking technology</li><li>Support up to 1920 x 1200 input content</li><li>Support various display modes, such as full mode, clone mode, PIP mode, and User mode</li><li>Audio output via HDMI cable, extra 2 channels analog output and 1 x SPDIF output</li><li>Allow remote managing via RS-232 or USB connection</li><li>Support HDCP</li></ul>			<ul style="list-style-type: none"><li>QNAP unique GeniMask bezel masking technology</li><li>Support up to 1920 x 1200 input resolution</li><li>Support various display modes, such as full mode, clone mode, and PIP mode</li><li>Allow remote managing via RS-232 or DVI connection</li><li>Easy-to-DIY video wall solution</li></ul>			<ul style="list-style-type: none"><li>QNAP unique GeniMask™ bezel masking technology</li><li>Support up to 1920 x 1200 input resolution</li><li>Support various display modes, such as full mode and clone mode</li><li>Allow remote managing via RS-232 or DVI connection</li><li>Easy-to-DIY video wall solution</li></ul>			<ul style="list-style-type: none"><li>QNAP unique GeniMask bezel masking technology</li><li>Support up to 1920 x 1200 input resolution</li><li>1 x Full screen HDMI monitoring output and 1 set of 3 x 3 HDMI output</li><li>Support 720p/1080p output resolution</li><li>Support various display modes, such as full mode, clone mode, PIP mode, and User mode</li><li>Audio output via HDMI cable, extra 2 channels analog output</li><li>Allow remote managing via RS-232 or USB connection</li><li>Support HDCP</li></ul>			
Dimensions (W x L x H mm)		230 x 180 x 47			146 x 166 x 63			230 x 180 x 47			295 x 188 x 65			295 x 188 x 65			
Cooling		Fanless			Internal fan			Fanless			Internal fan			Internal Fan			
Front Panel	LED Light	6 x LED (1 x input, 4 x output, 1 x power)			6 x LED (1 x input, 4 x output, 1 x power)			6 x LED (1 x input, 4 x output, 1 x power)			11 x LED (1 x input, 9 x output, 1 x power)			12 x LED (1 x Input, 10 x Output, 1 x Power)			
	Keypad	6 keys			6 keys			6 keys			6 keys			6 Keys			
	IR Receiver	Yes			Yes			Yes			Yes			Yes			
Rear Panel	Input	1 x DVI-D dual-link input			1 x HDMI input			1 x DVI-D single-link input			1 x DVI-D single-link input			1 x HDMI input			
	Output	4 x DVI-D single-link output			1 x 2 channels analog audio output via 9 pins connector 1 x SPDIF connector 1 x Full screen HDMI output 1 set of 2x2 HDMI output			4 x DVI-D single-link output			9 x DVI-D single-link output			1 x 2 channels analog audio output via 9 pins connector 1 x Full screen HDMI monitoring output 9 x HDMI output			
	RS-232	1 x RS-232			1 x RS-232 (via RJ-45 connector) 1 x mini USB			1 x RS-232			1 x RS-232			1 x RS-232			
Display Mode		Full mode, Clone mode, Vertical replication mode			Clone mode, Full mode, Vertical replication mode, PIP mode, User mode			Clone mode, Full mode, Vertical replication mode, PIP mode			Clone mode, Full mode			Clone mode, Full mode (3 x 3, 3 x 2, 2 x 3, 2 x 2, 1 x 1)			
Resolution		Input	Output	Output Vertical Frequency (Hz)	Input	Output	Input	Output	Input	Output	Input	Output	Input	Output			
		Full mode (2 x 2)			640 x 400 (70 Hz) 720 x 400 (70/85 Hz) 640 x 480 (60/66/70/72/75 Hz) 800 x 600 (56/60/66/70/72/75 Hz) 1024 x 768 (60/66/70/72/75 Hz) 1152 x 864 (75 Hz) 1280 x 720 (60 Hz) 1280 x 768 (60 Hz) 1280 x 960 (60 Hz) 1280 x 1024 (60/70/75 Hz) 1360 x 768 (60 Hz) 1440 x 900 1600 x 1200 1680 x 1050 1920 x 1080 1920 x 1200	720p / 1080p	640 x 480 800 x 600 1024 x 768 1152 x 864 1280 x 1024 1280 x 768 1400 x 1050 1280 x 960 1600 x 1200 1280 x 1024 1680 x 1050 1360 x 768 1920 x 1080 1366 x 768 1920 x 1200	640 x 480 800 x 600 1024 x 768 1152 x 864 1280 x 1024 1280 x 768 1400 x 1050 1280 x 960 1600 x 1200 1280 x 1024 1680 x 1050 1360 x 768 1920 x 1080 1366 x 768 1920 x 1200									
		Vertical replication mode (2 x 1)			2560 x 1024 3840 x 1080 3840 x 1200	2 x 1280 x 1024 2 x 1920 x 1080 2 x 1920 x 1200											
		Clone mode (1 x 1)			1024 x 768	1 x 1024 x 768											
		Full mode (4 x 1)			3392 x 480 3200 x 600 3840 x 600 4094 x 768	4 x 848 x 480 4 x 800 x 600 4 x 960 x 600 4 x 1024 x 768	60 60 60 60										
		Full mode (3 x 1)			3072 x 768 3840 x 800 3840 x 1024 4080 x 768	3 x 1024 x 768 3 x 1280 x 800 3 x 1280 x 1024 3 x 1360 x 768	60 60 60 60										
		Full mode (1 x 4)			1024 x 3072 1280 x 3200 1280 x 4095 1360 x 3072 1366 x 3072	4 x 1024 x 768 4 x 1280 x 800 4 x 1280 x 1024 4 x 1360 x 768 4 x 1366 x 768	60 60 60 60 60										
		Full mode (1 x 3)			1024 x 2304 1280 x 2400 1280 x 3072 1360 x 2304 1366 x 2304	3 x 1024 x 768 3 x 1280 x 800 3 x 1280 x 1024 3 x 1360 x 768 4 x 1366 x 768	60 60 60 60 60										
	Power Consumption		18W			24W			20W			35W			35W		
	Power Supply	Connector	DC Power Jack			DC Power Jack			DC Power Jack			DC Power Jack			DC Power Jack		
		Input	90VAC to 264VAC/47Hz to 63Hz			90VAC to 264VAC/47Hz to 63Hz			90VAC to 264VAC/47Hz to 63Hz			90VAC to 264VAC/47Hz to 63Hz			90VAC to 264VAC/47Hz to 63Hz		
		Output	12V DC 3.33A			12V DC 3.33A			12V DC 3.33A			12V DC 3.33A			12V DC 3.33A		
	OSD Function		<ul style="list-style-type: none"><li>Power On/Off</li><li>Output resolution selection</li><li>GeniMask bezel masking control</li></ul>			<ul style="list-style-type: none"><li>Power On/Off</li><li>Output resolution selection</li><li>GeniMask bezel masking control</li></ul>			<ul style="list-style-type: none"><li>Power On/Off</li><li>Output resolution selection</li><li>GeniMask bezel masking control</li></ul>			<ul style="list-style-type: none"><li>Power On/Off</li><li>Output resolution selection</li><li>GeniMask bezel masking control</li></ul>			<ul style="list-style-type: none"><li>Power On/Off</li><li>Output resolution selection</li><li>GeniMask bezel masking control</li></ul>		
	Temperature		0°C ~ 40°C With air flow			0°C ~ 40°C With air flow			0°C ~ 40°C With air flow			0°C ~ 40°C With air flow			0°C ~ 40°C With air flow		
	Safety and Emission		CE, FCC			CE, FCC			CE, FCC			CE, FCC			CE, FCC		

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